

AMENDMENT TO THE SPECIFICATION

In the title please change the title to:
INCLUDING THE CATEGORY OF ENVIRONMENTAL NOISE WHEN
PROCESSING SPEECH SIGNALS

Please replace the paragraph at page 10, lines 4-21 with
the following:

A user may enter commands and information into the computer 110 through input devices such as a keyboard 162, a microphone 163, and a pointing device 161, such as a mouse, trackball or touch pad. Other input devices (not shown) may include a joystick, game pad, satellite dish, scanner, or the like. These and other input devices are often connected to the processing unit 120 through a user input interface 160 that is coupled to the system bus, but may be connected by other interface and bus structures, such as a parallel port, game port or a universal serial bus (USB). A monitor 191 or other type of display device is also connected to the system bus 121 via an interface, such as a video interface 190. In addition to the monitor, computers may also include other peripheral output devices such as speakers 197 and printer 196, which may be connected through an output peripheral interface 190195.

Please replace the paragraph on page 20, lines 17-29 with the following:

The frames of data created by frame constructor 607 are provided to feature extractor 610608, which extracts a feature from each frame. The same feature extraction that was used to train the noise environment parameters (the correction vectors, means, and standard deviations of the mixture components) is used in feature extractor 610608. As mentioned above, examples of such feature extraction modules include modules for performing

Linear Predictive Coding (LPC), LPC derived cepstrum, Perceptive Linear Prediction (PLP), Auditory model feature extraction, and Mel-Frequency Cepstrum Coefficients (MFCC) feature extraction.